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Covering codes. G.Cohen, I.Honkala, S.Litsyn, and A.Lobstein

... of the Delsarte theorem mentioned above, **extended** from the ... After a short chapter, mostly on **BCH codes**, they devote ... finding "the worst way [to **shorten**] a linear ...  
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... and the regularity number  $P$  for this **BCH code** of length 255. ...  $2k, 2' - 2k - r$  SD(2k) **code** and **shorten** it to ... We will use the **extended** Hamming **code** in this case ...  
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... Hamming **BCH** Reed-Solomon ... Page 38. 37 **Extended** Hamming **Codes** Parity **Codes** ... **Code** shortening enhances this flexibility **Shorten** rows, columns, and/or bits Page 40. 39 ...  
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... the Hamming **codes** are a particular case (one-error-correcting **BCH codes**). ... a two-dimensional  $(8,4) \times (8,4)$  **extended** Hamming Product **code** ... **Shorten** 6 Additional Bits ...  
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... correcting **BCH-codes** (Bose-Chaudhuri-Hocquenghem), or Hamming **Codes**. ... Assume a two-dimensional  $(8,4) \times (8,4)$  **extended** Hamming Product ... **Shorten** 6 Additional Bits ...  
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... and a  $(31; 16; 7)$  **extended BCH code (BCH)** heuristically minimized ... be applied to several generators: **shorten C** by ... 31, dimension 16, triple **error-correcting BCH** ...  
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[PS] Chapter 14 Some error-correcting codes and their applications

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... the orthogonal of the **extended** binary Hamming **code** ... The general theory of **BCH codes** (see [1, Chapter 2]) immediately ...  $k = n \setminus \Gamma_4 = 251$ , and **shorten** to length ...  
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... arbitrary words of the  $[8; 4; 4]$  **extended** Hamming **code** ... we puncture or **shorten**, we puncture or **shorten** at all ... Some Results on Weight Distributions of **BCH Codes**. ...  
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... case in a series of works on **BCH codes** [23], [11 ... Let us **shorten C** with respect to these ... and fi ... This definition is **extended** naturally to cover higher weights [26 ...  
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... 8-PSK and 64-QAM, can be **extended** to asymmetric 16 ... (64,36,12), and (64,57,4) **ex-BCH codes**, with an ... In this case, two levels of **error** correcting capability are ...  
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... correcting **BCH-codes** (Bose-Chaudhuri-Hocquenghem), or Hamming **Codes** ... 8,4)  $\times$  (8,4) **extended** Hamming Product ... input, the first row encoder **error** correction **coding** ...  
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... Hamming **BCH** Reed-Solomon Convolutional **Codes** (Viterbi) ... 1.E+00 1 2 3 4 5 6 7 8  
Eb/No (dB) Bit **Error** Rate P(e) ... Page 38. 37 **Extended** Hamming **Codes** Parity **Codes** ...  
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... The words of weight 16 in an **extended** cyclic **code** ... 32)  $\geq 2^{43}$  comes from a **BCH code** [9, p ... JH Conway and NJA Sloane, Lexicographic **codes**: **error**-correcting **codes** ...  
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... [11; 5; 6] yields an **extended code** with parameters ... weights of binary primitive **BCH codes**, IEEE Transactions on ... NJ.Sloane: The Theory of **Error-Correcting Codes**, ...  
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... **extended** direct sum construction given in (79) and (81 ... the [31, 11] five-**error**-correcting **BCH code**, has an ... Peterson and E. J. Weldon, Jr., **Error-Correcting Codes** ...  
[www.research.att.com/~njas/doc/1218related.pdf](#) - [Similar pages](#)

[PS] [38] M. Yamada, [Distance-regular digraphs of girth 4 over an ...](#)

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... and **extended** to a map from  $\mathbb{Z}_n$  ... for even  $m \neq 4$ , which by comparison with (8) is seen to have twice as many codewords as a double-**error**-correcting **BCH code**. ...  
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... and (9) yields another bound on the **error** probability ... which we omit, follow immediately from the theory in [12]. ... 1 are two codewords in the **code**, all codewords ...  
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... 31 4.3.2.2 Interleaving of **extended** TFCI word ... Table 4-1. **Error** Correction **Coding** Parameters Transport channel type **Coding** scheme (constraint ... **BCH** **PCH** **FACH** **RACH** ...

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